## Reaction of the $TS\alpha$ subunit:

$$\begin{array}{c} \text{HO} \\ \text{OPO}_3^{-2} \\ \text{N} \\ \text{H} \end{array}$$

## Reaction of the $TS\beta$ subunit:

HO 
$$CO_2H$$
  $NH_2$  +  $NH_2$ 

Figure 1

Figure 2

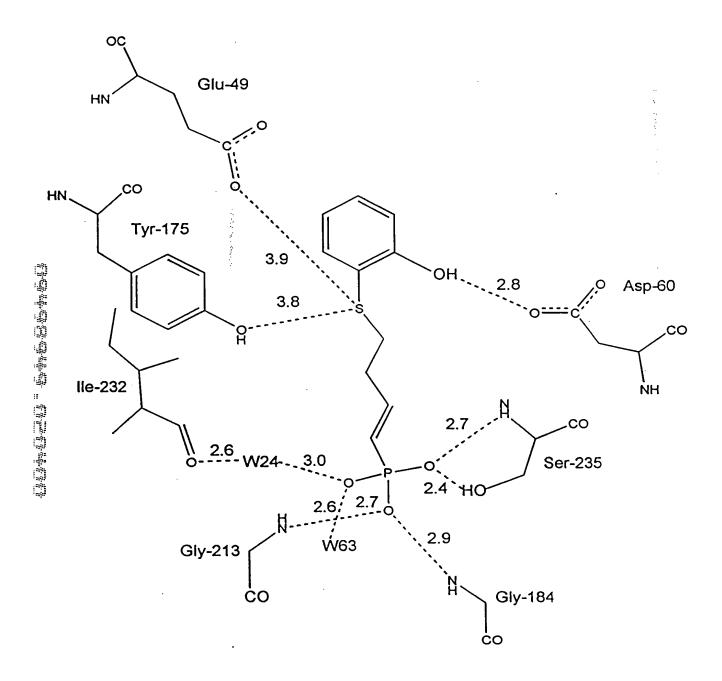


Figure 3A

在各种中的一种一种一种一种一种一种一种一种一种

Figure 3B

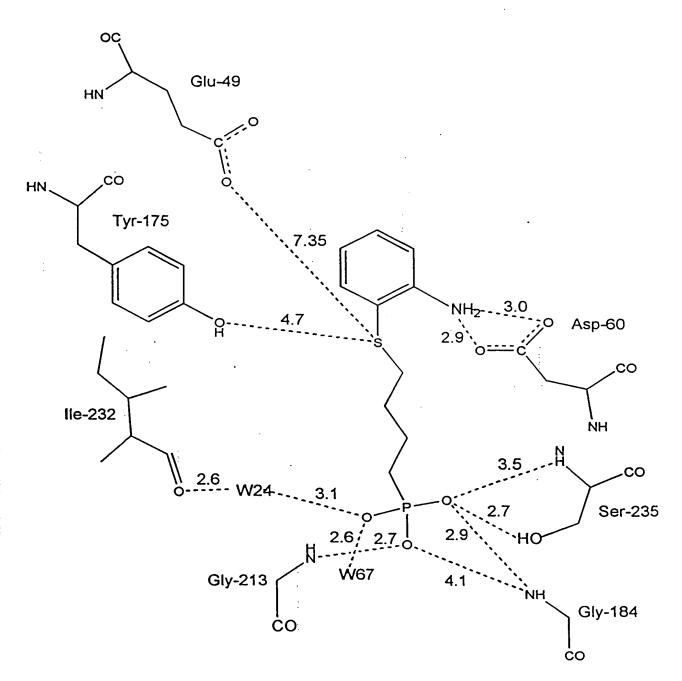


Figure 3C

D οç Glu-49 HN CO HN. Tyr-175 4.8 Asp-60 3.6 .co lle-232 NH Ser-235 2.8 / 2.9 *;* ₩70 Gly-213 Gly-184 ço ço

Figure 3D

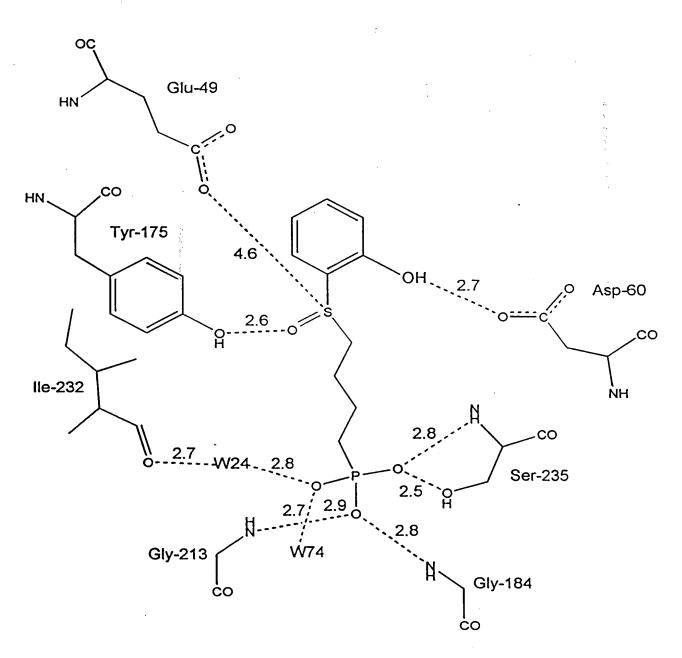


Figure 3E

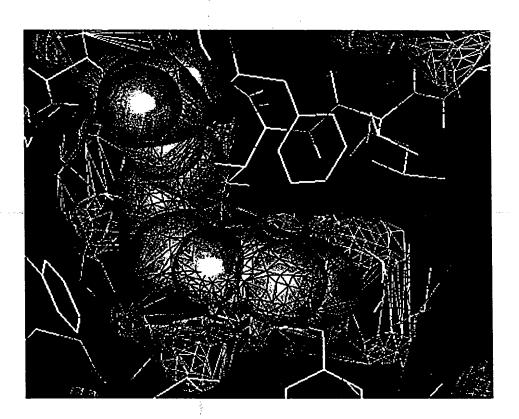


Figure 4

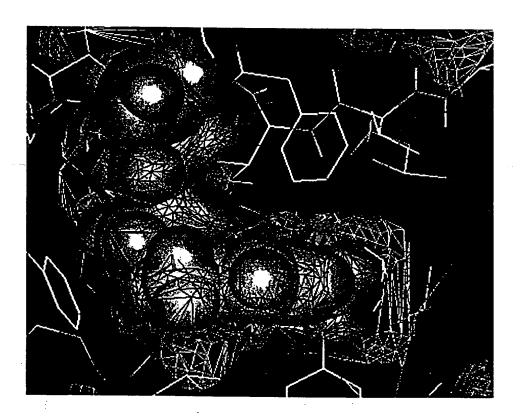


Figure 5



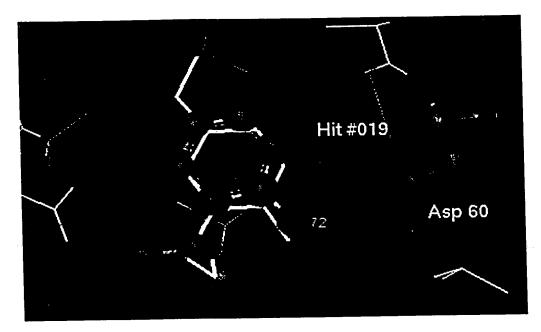


Figure 7

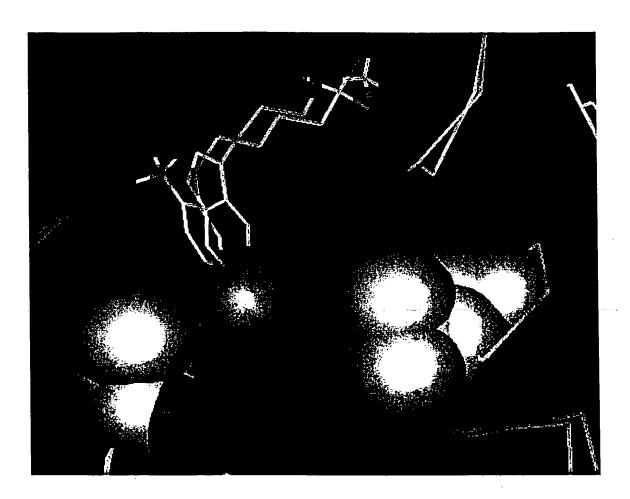


Figure 8